

Patent Abstracts of Japan

PUBLICATION NUMBER : 2000035677  
PUBLICATION DATE : 02-02-00

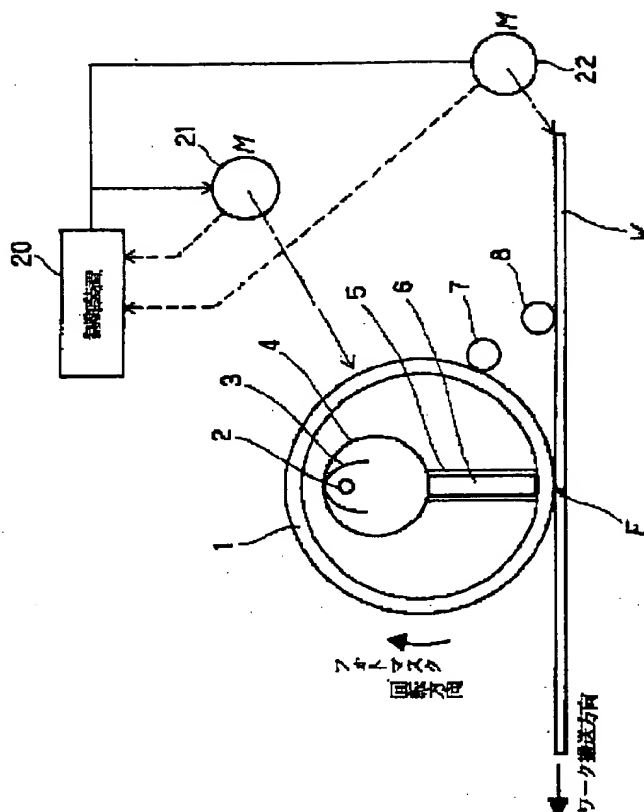
APPLICATION DATE : 17-07-98  
APPLICATION NUMBER : 10219809

APPLICANT : ADTEC ENGINEERING KK;

INVENTOR : IDA RYOICHI;

INT.CL. : G03F 7/23 H05K 3/00

TITLE : ALIGNER



**ABSTRACT :** PROBLEM TO BE SOLVED: To realize consecutive exposure with high accuracy by providing a driving device rotating a cylindrical photomask so that the photomask may synchronize with an object to be exposed and carrying the object to be exposed, and a light source irradiating the object to be exposed with light by transmitting the light through the photomask.

**SOLUTION:** The cylindrical photomask 1 on the surface of which a mask pattern is drawn is attached to rotate in a direction shown by an arrow. The photomask 1 and a work W are driven so that they may accurately synchronize with each other by a servo driving mechanism constituted of a controller 20 and the driving devices 21 and 22. Then, the exposing light source 2 is provided on a longitude passing through the rotary shaft of the photomask 1 all over a cylinder length direction inside the photomask 1. In such constitution, the work W is carried in the direction shown by an arrow, and the photomask 1 is rotated in the direction shown by the arrow synchronizing with the work W. Then, they are exposed by the light source 2 at an exposure position E. Thus, the mask pattern is consecutively printed.

COPYRIGHT: (C)2000,JPO